

1899 to 1927

Aug 1894 to

ORIGINAL LOG BOOK OF THE "FISH HAWK"

UNITED STATES FISH COMMISSION

STATION NUMBERS

Numbers 1899 to 1927

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 1899

Date, Sept 1st 1894

Time of day, 12:40 PM; of tide, Eb

Locality, Vineyard Sound

Exact position, Jack Orr & Cuck, Nunk 88°55'

Cuck, Nunk St & Gay Head 93°11'

Depth, 10 fathoms

Nature of bottom, sandy with blk specks

Dredging instrument used, 7 ft Beam Trawl

Direction of drift, ; distance,

Temperature of air, 70 therm. No.,

" of surface water, 67

" at depth of fathoms,

" at bottom, 63 7/3

Density at surface, 1023.6 temp., 67

" at depth of fathoms,

" at bottom,

Number of salinometer, 7052

Barometer reading, 30.09

State of sky, Clear

Direction of wind, WSW; force, 1

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, "Fish Hawk"

Service to which attached, U.S. Commission

Name and rank of commanding officer, Robt. P. Latt

Lieut. U.S.N.

Name and position of observer, C. H. Cleveland

Navy U.S.N.

NOTES RELATING TO STATION NO. 1899

Obtained about 1/2 bushel of material consisting of Skate
Flounders Starfish - Crabs
Sand dollars. Hermit Crabs
Kelp & sea weeds

RECORD OF DREDGING,
TEMPERATURE AND DENSITY.

Station No.

1900

Date,

Sept 1st 1894

Time of day, 110 PM ; of tide, Ebb

Locality, Vineyard Sound

Exact position, Nobskag Lgh to Cuttyhunk

Lgh 114° 26' Cuttyhunk to Gay Head 119° 10'

Depth, 16 fathoms

Nature of bottom, Sand & Shells

Dredging instrument used, 7 ft Beam Trawl

Direction of drift,

; distance,

Temperature of air, 73

therm. No.,

" of surface water, 66

" at depth of fathoms,

" at bottom, 66 73

Density at surface, 1024.6

temp., 66

" at depth of fathoms,

" at bottom,

Number of salinometer, 7052

Barometer reading, 30.09

State of sky, Clear

Direction of wind, N N W ; force, 1

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U. S. O. M. C.

Name and rank of commanding officer, Robt. Blair

Lieut. 2d M.

Name and position of observer, Off Cleveland
Metrop.

NOTES RELATING TO STATION NO. 1690

Obtained, Sea Urchins 1. Star Fish
Rock Crabs, Hermit Crabs, Small
Shells, a few Skates & Flounders
A number of Pectens,

54 N. 72 W.
82 32,

643

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 1901.
Date, Sept 6th 1894
Time of day, 10.15 a.m.; of tide, Flood
Locality, Burrows Bay Mass.
Exact position, Head of Long Creek, S by N $\frac{1}{4}$ W.
North end Hog Island Pt S.E. by E $\frac{1}{4}$ E.
Depth, 5 ft 2 ft
Nature of bottom, Coarse Sand
Dredging instrument used, 7 ft Beam Gravel.
Direction of drift, ; distance,
Temperature of air, 71 therm. No.,
" of surface water, 69 "
" at depth of fathoms, "
" at bottom, 69 "
Density at surface, 1023.0 temp., 69
" at depth of fathoms, "
" at bottom, "
Number of salinometer, 7052
Barometer reading, 3004
State of sky, Hazy
Direction of wind, N.W.E.; force, 4
Rain,
Direction of surface current, ; force,
" of bottom " ; force,
Name of vessel, Fish Hawk
Service to which attached, U.S. F.C.
Name and rank of commanding officer, R. Platt
Lient 86. S. N.
Name and position of observer,
James A. Smith
Mate U.S. N.

NOTES RELATING TO STATION NO. 1901

Starfishes Several sponges, and
sea weeds, Bravo, V.; Scallops

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 1902

Date,

Sept 6th 1894

Time of day, 10.35 a.m.; of tide, flood

Locality,

Burrards Bay Mass.

Exact position,

Tangent N. E. Hog Island 77° 05'

to Wing Rock Lgh. Wing Rock to Head Is. 36° 17'

Depth, 5 fathoms

Nature of bottom,

Fine S. Bk Sh. B. mud

Dredging instrument used,

7ft Beam Trawl

Direction of drift,

; distance,

Temperature of air,

69.5

therm. No.,

" of surface water,

"

" at depth of fathoms,

"

" at bottom,

68

"

Density at surface,

1023.0

temp.,

69

" at depth of fathoms,

"

" at bottom,

"

Number of salinometer,

7052

Barometer reading,

3004

State of sky,

Hazy

Direction of wind,

E. N. E.

; force, 2

Rain,

Direction of surface current,

; force,

" of bottom "

; force,

Name of vessel,

Fish Hawk

Service to which attached,

U. S. C.

Name and rank of commanding officer,

Robert Platt

Lient U. S. N.

Name and position of observer,

Jas A. Smith
Malo 2822

NOTES RELATING TO STATION NO. 1902

A small quantity of Finger sponge
Bravo live coral, and Sea weeds,

RECORD OF DREDGING,
TEMPERATURE AND DENSITY.

Station No. 1903,

Date, Sept 6.

Time of day, 11.00 A.M.; of tide, Flood.

Locality, Burrows Bay Mass.

Exact position, N. end Hog Is to wing rock. Lgh. 48.00' L

West end of Long Beach to Hog Is. 118.33. R.

Depth, 77th 3 ft

Nature of bottom, Barnacle Bok Shells.

Dredging instrument used, 7 ft Beam Trawl.

Direction of drift, ; distance,

Temperature of air, 70 therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1023 temp., 68

" at depth of fathoms, "

" at bottom, "

Number of salinometer, 7052

Barometer reading, 3004

State of sky, Hazy

Direction of wind, E. N. E.; force, 2

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U. S. F. C.

Name and rank of commanding officer, R. Platt

Lieut U. S. N.

Name and position of observer,

Jas A. Smith
Mato U. S. N.

NOTES RELATING TO STATION NO. 1903

3 Spider Crabs 1 *Squilla*, small Shrimps
Broken Shells and Sea weed,

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 1904.

Date, Sept. 7, 1894.

Time of day, 9.40 a.m.; of tide, $\frac{1}{4}$ flood tide.

Locality, Burrows Bay, Mass.

Exact position, Ned. Pt. Lgt. to Cormorant R. B. Ind. 29.3

Cormorant R. B. Ind. to Cormorant R. 98.20

Depth, 4 $\frac{1}{2}$ fms.

Nature of bottom, Fine sand.

Dredging instrument used, Test Net.

Direction of drift, ; distance,

Temperature of air, 68 therm. No.,

" of surface water, ..

" at depth of fathoms, ..

" at bottom, 69 70.8450303.

Density at surface, 102400 temp., 69

" at depth of fathoms, ..

" at bottom, ..

Number of salinometer, 7200

Barometer reading, 30.04

State of sky, 2600

Direction of wind, S. W. ; force, 2

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Test Net.

Service to which attached, H. S. F. C.

Name and rank of commanding officer, R. Platt

Commander, U. S. N. C.

Name and position of observer,

Franklin W. Greene

NOTES RELATING TO STATION NO. 1925

Yerkes Observatory
Milwaukee, Wisconsin

RECORD OF DREDGING,
TEMPERATURE AND DENSITY.

Station No. 1905
 Date, Sep 7th 1874
 Time of day, 10.09 a.m.; of tide, $\frac{1}{4}$ flood tide
 Locality, Burrenhol Bay 100
 Exact position, Grid S. 46° 30' N. 102° 32' E.
 Tides Pt. 45 Dipping Lg. 102° 32'
 Depth, 6 $\frac{1}{2}$ fms.
 Nature of bottom, Sand & Sand.
 Dredging instrument used, 7 ft. Keno dredge.
 Direction of drift, ; distance,
 Temperature of air, 68, therm. No.,
 " of surface water, "
 " at depth of fathoms, "
 " at bottom, 68 " 50305
 Density at surface, 102395 temp., 68.57
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer, 7205
 Barometer reading, 30.04
 State of sky, Hazy
 Direction of wind, S. W. ; force, 2
 Rain, 26
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, Fish Hawk
 Service to which attached, U. S. C. S.
 Name and rank of commanding officer, R. M. M.
 Name and position of observer,
 James C. Lester
 Mate 3rd class

NOTES RELATING TO STATION NO. 1961

Blue Lagoon, Spence's Branch
1 mile below

RECORD OF DREDGING,
TEMPERATURE AND DENSITY.

Station No. 1906,
 Date, Sept. 18, 1894
 Time of day, 10.40 a.m.; of tide, $\frac{1}{2}$ Flood tide
 Locality, Pensacola Bay, Fla.
 Exact position, From 5 fath. to 10 fath. depth, 50° 15'
 Lat. 30° 45' to 31° 00' N. Lat. 87° 17' to 88° 00' W.
 Depth, 4 fath.
 Nature of bottom, Firm bottom
 Dredging instrument used, 7 ft. beam trawl
 Direction of drift, ; distance,
 Temperature of air, 75 therm. No.,
 " of surface water, "
 " at depth of fathoms, "
 " at bottom, 16 2194 " 50303
 Density at surface, 102360 temp., 68.6
 " at depth of fathoms, "
 " at bottom, "
 Number of salinometer, 12.65
 Barometer reading, 30.04
 State of sky, Partly cloudy
 Direction of wind, N. E. N.; force, 2
 Rain,
 Direction of surface current, ; force,
 " of bottom " ; force,
 Name of vessel, Fish Hawk
 Service to which attached, U. S. F. C.
 Name and rank of commanding officer, R. Platt
 Rank, 2d Lt.
 Name and position of observer.

NOTES RELATING TO STATION NO. 1906

1906

RECORD OF DREDGING,
TEMPERATURE AND DENSITY.

Station No. 1907

Date, Sept 8th 1894

Time of day, 12.05 P.M.; of tide, $\frac{1}{2}$ flood high.

Locality, Bivalve Bank, 7 m.

Exact position, West end of Bivalve Bank

12.05 P.M. 79 fathoms drag dust 24 minutes

Depth, 10 fathoms

Nature of bottom, Gravel & fine rock stones

Dredging instrument used, 7 ft. R.

Direction of drift, ; distance,

Temperature of air, 72 therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 102410 temp., 68,

" at depth of fathoms, "

" at bottom, "

Number of salinometer, 7205.

Barometer reading, 30.09

State of sky, cloudy.

Direction of wind, S.E. ; force, 3

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U.S.A.

Name and rank of commanding officer, R. Platt

Seubenant 86.6.30.

Name and position of observer,

Jas. C. Smith,
Mate 86.6.30.

NOTES RELATING TO STATION NO. 1917

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 1908

Date, Sept 14 1894

Time of day, 9 A.M. : of tide, $\frac{1}{4}$ quarter Ebb

Locality, Menemsha Bight Mass

Exact position, $\frac{3}{4}$ mile N E of Lobster
view

Depth, 6 fms

Nature of bottom, fine gravel

Dredging instrument used, 7 ft. dredge

Direction of drift, ; distance,

Temperature of air, 72 therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1024.90 temp., 64

" at depth of fathoms, "

" at bottom, "

Number of salinometer, 7052

Barometer reading, 30.46

State of sky, cloudy

Direction of wind, N. E. force, 1

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U.S. Fish Commission

Name and rank of commanding officer, W. D. Bond
Ensign U.S.N.Name and position of observer, C. H. Cleveland
Mata Lays

NOTES RELATING TO STATION NO. 1908

Crabs - Starfish - Lobsters
Skates - Flounders - Sea Ribbons
Hermit Crabs, Sea Shells

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 1909

Date, Sept 14th 1894Time of day. 10 15th AM; of tide, 1st quarter Ebb

Locality, Menemsha Bright

Exact position, 1/16 mile SSW from Gap

Near Lb No.

Depth, 3 fathoms

Nature of bottom, white sandy bottom

Dredging instrument used, 7 ft. Bear Trap

Direction of drift, ; distance,

Temperature of air. 72 therm. No.,

" of surface water,

" at depth of fathoms,

" at bottom,

Density at surface, 1.024.8 temp., 65

" at depth of fathoms,

" at bottom,

Number of salinometer, 7052

Barometer reading, 30.47

State of sky, cloudy

Direction of wind, SSW : force, 1

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U.S.A.C.

Name and rank of commanding officer, M. L. Grand

Ensign U.S.N.

Name and position of observer, C. H. Cleveland
M. A. 2712

NOTES RELATING TO STATION NO. 1909

Hounders - Skates - Crabs - Kelp
Sea Robin - Star fish - Hermit
crabs - young sea bass
Stone crabs

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 1910

Date, Sept 14th 1894

Time of day, 10 55 A.M. of tide, 1/2 high Ebb

Locality, Vineyard Sound

Exact position, Fresh Harbor, N.E. 1 1/2 miles

Latitude 41° 45' N. Longitude 70° 50' E.

Depth, 13 1/2 fathoms

Nature of bottom, Gr. Sand & Gr. Shells

Dredging instrument used, 7 ft Beam Trawl

Direction of drift, SSW : distance, 1/4 mile

Temperature of air, 73 therm. No.,

" of surface water,

" at depth of fathoms,

" at bottom,

Density at surface, 1024.8 temp., 65

" at depth of fathoms,

" at bottom,

Number of salinometer, 7052

Barometer reading, 30.44

State of sky, Cloudy

Direction of wind, SSW; force, 1

Rain,

Direction of surface current, : force,

" of bottom " : force,

Name of vessel, Fresh Hawk

Service to which attached, U.S.A.C.

Name and rank of commanding officer, W.L. Broad

Ensign U.S.A.C.

Name and position of observer, C.H. Cleveland

Mate U.S.A.C.

NOTES RELATING TO STATION NO. 1910

obtained about a bushel of material consisting of dead shells - Skates - Cods - Sand dollars - Star fish - young Sea Robins - Hermit Crabs - Sea urchins

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 1911

Date, Sept 14th 1894

Time of day, 12 Noon : of tide, 3/4 Ebb

Locality, Vineyard Haven 118° 30'

Exact position Hobbs Pt. L. Clutchy banks to

Clutchy banks to Gay Head Lt 121° 13'

Depth, 14 fathoms

Nature of bottom, sand, gravel & shells

Dredging instrument used, 7 ft Beam Trawl

Direction of drift, : distance,

Temperature of air, 76 therm. No.,

" of surface water, 64 1/2 "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1024.8 temp., 64 1/2

" at depth of fathoms, "

" at bottom, "

Number of salinometer, 7052

Barometer reading, 30.4°

State of sky, cloudy

Direction of wind, SSW ; force, 2

Rain,

Direction of surface current, : force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U. S. F. C.

Name and rank of commanding officer, W. L. Brad

Ensign U. S. N.

Name and position of observer, C. H. Cleaveland

Math. U. S. N.

NOTES RELATING TO STATION NO. 1911

Hermit Crabs - Hermit Crabs
Keeps - Sand dollars
Sea urchins

RECORD OF DREDGING,
TEMPERATURE AND DENSITY.

Station No. 1912

Date, Sept 19th 1894

Time of day, 3:45 P.M.; of tide, $\frac{1}{4}$ ebb

Locality, Buzzards Bay

Exact position, S. end of Wing Neck 89° 36'

Wing Neck is a long narrow island of Noy & 94° 01'

Depth, 3 fathoms + 36 ft

Nature of bottom, Gr. & fine sand

Dredging instrument used, 7 ft. & 18 fath.

Direction of drift, : distance.

Temperature of air, 65 therm. No.,

" of surface water, $69\frac{1}{2}$

" at depth of fathoms, "

" at bottom, "

Density at surface, 1022.6 temp., $69\frac{1}{2}$

" at depth of fathoms, "

" at bottom, "

Number of salinometer, 7052

Barometer reading, 2994

State of sky, cloudy

Direction of wind, E N E; force, 2

Rain,

Direction of surface current, : force,

" of bottom " : force,

Name of vessel, Fish Hawk

Service to which attached, R. S. & C.

Name and rank of commanding officer, W. L. Dray

Captain

Name and position of observer, G. W. Cleland

Scientist

NOTES RELATING TO STATION NO. 1912

a few pis yellow sponge
dead coral shells - may be within
dead Escallop Shells

RECORD OF DREDGING,
TEMPERATURE AND DENSITY.

Station No. 1913

Date, Sept 19th 1894

Time of day, 3.05 PM : of tide, 3/4 Ebb.

Locality, Buzzards Bay

Exact position, Between Pt to Wing Neck 26° 12' 4" 26°

Wing Neck St to Tangent Hill end of Marshland 58° 48'

Depth, 4 fathoms + 2 ft

Nature of bottom, hard, s.

Dredging instrument used, 7 ft. New Hawk

Direction of drift, ; distance,

Temperature of air, 66 therm. No.,

" of surface water,

" at depth of fathoms,

" at bottom,

Density at surface, 1022.6 temp., 69 1/2

" at depth of fathoms,

" at bottom,

Number of salinometer, 7052

Barometer reading, 29.92

State of sky, Cloudy

Direction of wind, ENE : force, 2

Rain,

Direction of surface current, : force,

" of bottom " : force,

Name of vessel, "Flock Hawk"

Service to which attached, U.S. Fish C.

Name and rank of commanding officer, W.H. Dray

Engin. Mfg.

Name and position of observer, G. H. Cleveland

Math. Mfg.

NOTES RELATING TO STATION NO. 1913

About a bushel of yellow lump
sponges, a few live Escalopes
dead Orach & Escalope shells

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 1914

Date, Sept 19. 1894

Time of day, 3.30 PM; of tide, 3/4 Ebb

Locality, Buzzards Bay

Exact position, Between Dr. & Wings Neck Lat 42° 12' 18"

Wings Neck Lat 42° 12' 18" Head of Nashua 50° 27'

Depth, 4 fathoms & soft

Nature of bottom, Sand, S

Dredging instrument used, 7 ft. Ben Pease

Direction of drift, ; distance,

Temperature of air, 66 therm. No.,

" of surface water, 69 1/2

" at depth of fathoms,

" at bottom,

Density at surface, 1.022.6 temp., 69 1/2

" at depth of fathoms,

" at bottom,

Number of salinometer, 7052

Barometer reading, 29.92

State of sky, Cloudy

Direction of wind, S N E ; force, 3

Rain,

Direction of surface current, ; force,

" of bottom " ; force.

Name of vessel, Fish Hawk

Service to which attached, U.S.F.C.

Name and rank of commanding officer, W. L. Dods

Ensign U.S.N.

Name and position of observer, C. H. Cleveland

Mate U.S.N.

NOTES RELATING TO STATION NO. 1914

about ten bushel of yellow lamp
sponge, Dead Escallop shells,
a few live Escallop and
Spider crabs

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 1915

Date, Sept 26th 1894

Time of day, 2.10 PM; of tide, 1/4 flood

Locality, Menomsha Bright

Exact position,

Depth, 7 fathoms

Nature of bottom, Sandy bottom

Dredging instrument used, 7 ft Beam Trawl

Direction of drift, ; distance,

Temperature of air, 64 therm. No.,

" of surface water, 64

" at depth of fathoms, "

" at bottom, "

Density at surface, 1024.0 temp., 64

" at depth of fathoms, "

" at bottom, "

Number of salinometer, 7052

Barometer reading, 3042

State of sky, Partly cloudy

Direction of wind, East; force, 5

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U S F C

Name and rank of commanding officer, W L Ornd

Ensign U S N

Name and position of observer, G. H. L. Johnson

Mate U S N

NOTES RELATING TO STATION NO. 1915

Obtained about $\frac{1}{2}$ bushel of material consisting of Lobster
Crabs. Star fish - Kelp & yellow
lump sponge. sand clam shells
Skate fish

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 1916

Date, Sept 26th 1894

Time of day, 2:30 PM; of tide, 44 fms

Locality, Menominee Bight

Exact position,

Depth, 10 fathoms

Nature of bottom, 5 ft m

Dredging instrument used, 7 ft Beam Trawl

Direction of drift, ; distance,

Temperature of air, 65

therm. No.,

" of surface water, 64

" at depth of fathoms,

" at bottom,

Density at surface, 1024.2

temp., 64

" at depth of fathoms,

" at bottom,

Number of salinometer, 7052

Barometer reading, 30.42

State of sky, Partly Cloudy

Direction of wind, East ; force, 5

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U.S.A.C.

Name and rank of commanding officer, M. L. Bowditch

Ensign U.S.N.

Name and position of observer, C. H. Cleveland
Master's M.

NOTES RELATING TO STATION NO. 1916

obtained about 2 weeks
Material consistency of
lobster, Flounder, Cod
hake, the fish, yellow
lumps ~~orange~~, ~~sterile~~
young sea robin. Puffing
fish (Balistes punctatus),
(*Callionymus maculatus*)

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 1917

Date, Oct 2° 1894

Time of day, 7.15 P.M. : of tide, $\frac{3}{4}$ Flood

Locality, Chesapeake Bay

Exact position, Between Bluff & Plantation
Mato & the 80 Cheyenne & the Cape Ches-
Depth, 22 fathoms

Nature of bottom, 34 Pebbles

Dredging instrument used, 7 ft. 13 fathoms

Direction of drift, ; distance,

Temperature of air, 60 therm. No.,

" of surface water, 68 "

" at depth of fathoms, "

" at bottom, "

Density at surface, 1017.4 temp., 68

" at depth of fathoms, "

" at bottom, "

Number of salinometer, 7052

Barometer reading, 3030

State of sky, Clear

Direction of wind, N E ; force, 2

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U. S. S. C

Name and rank of commanding officer, M. L. Woods

Captain U. S. N.

Name and position of observer, S. H. Cleaveland
Master at Sea

NOTES RELATING TO STATION NO. 1917

Obtained about 2 bushels of
Gorgonaria sea grass
Numerous Htg shucters. Starfish
Cockles. Crabs. Squilla

RECORD OF DREDGING,
TEMPERATURE AND DENSITY.

Station No. 1918

Date, Oct 12 1894

Time of day, 7.45 AM of tide, 3/4 Flood

Locality, Chesapeake Bay

Exact position, Buckroe Bluff & Plantation flats

Chesapeake Bay at 30 fms depth at
Cape Charles Alt 60 fms sofads

Nature of bottom, Bar m

Dredging instrument used, 7 ft Beam Dredge

Direction of drift, ; distance,

Temperature of air, 60 therm. No.,

" of surface water, 68

" at depth of fathoms, ..

" at bottom, ..

Density at surface, 1016.6 temp., 68

" at depth of fathoms, ..

" at bottom, ..

Number of salinometer, 70.52

Barometer reading, 30.30

State of sky, Clear

Direction of wind, NE ; force, V

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, 26 S F C

Name and rank of commanding officer, W. D. Ober

Ensign K. S. W.

Name and position of observer, S. H. Cleveland

Master 2570

NOTES RELATING TO STATION NO. 1918

Obtained about a basket of material consisting of Crabs
Star-fish. Sea-fern, Hay skeleton
(Numenius), Gorgonia-yellow thing
Sponge and grass. Conch Eggs
/ sea Pigeon

RECORD OF DREDGING,
TEMPERATURE AND DENSITY.

Station No. 1919

Date, Oct 12 1894

Time of day, 8:45 A.M. : of tide, Low of Moon

Locality, Chequameg Bay

Exact position, Butter Bluff & Plantation flats

Lat 40° 00', Chequameg St 40° 00' S. Lat
at Cape Chignac Lat 40°

Depth, 26 fathoms

Nature of bottom, Bk m

Dredging instrument used, 7 ft B. Trawl

Direction of drift, : distance.

Temperature of air 68 therm. No.,

" of surface water, 65

" at depth of fathoms,

" at bottom,

Density at surface, 1016-3 temp., 65

" at depth of fathoms,

" at bottom,

Number of salinometer, 7062

Barometer reading, 30.00

State of sky, Clear

Direction of wind, N E ; force, 3

Rain,

Direction of surface current, ; force,

" of bottom, " : force,

Name of vessel, Fish Hawk

Service to which attached, U. S. S. C.

Name and rank of commanding officer, W. B. Bain

Engr. Mfr.

Name and position of observer, G. W. Cleveland
Mar. 1894

NOTES RELATING TO STATION NO. 1920

Obtained about 1/2 basket of material
consisting of Chicken Crabs - Shrimp
Gorgonia - Green Hog Cheshire
Starfish - Coral. 1 sea Pigeon

RECORD OF DREDGING,
TEMPERATURE AND DENSITY.

Station No. 1920

Date, Oct 12th 1894

Time of day, 9.10 a.m. ; of tide, High water

Locality, Chesapeake Bay

Exact position, Bear's Bluff & Plantation flats off

Chesapeake City to Chincoteague Island

Depth, 2 1/4 fathoms

Nature of bottom, Blk M

Dredging instrument used, 7 ft B Trawl

Direction of drift, ; distance,

Temperature of air, 68 therm. No.,

" of surface water, 66

" at depth of fathoms,

" at bottom,

Density at surface, 1016.4 temp., 66

" at depth of fathoms,

" at bottom,

Number of salinometer, 7052

Barometer reading, 30.30

State of sky, Clear.

Direction of wind, W E ; force, 3

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U.S.F.C.

Name and rank of commanding officer, W.L. Dray

Ensign 2d C N

Name and position of observer, C. H. Cleveland

Mate 2d C N

NOTES RELATING TO STATION NO. 1920

obtained about a bushel of material
consisting of Star. Cracks. Crabs.
Star fish. *Gorgonia*. Dead shells
with coral attached. Big sponge
yellow lump sponge

NOTES RELATING TO STATION NO. 1921

At 10.20 hour in the trawl

No specimens obtained

The trawl was lowered about 12
± 15 fathoms from the surface
trying to catch fish at the
intermediate depths

RECORD OF DREDGING,
TEMPERATURE AND DENSITY.

Station No. 1922

Date, April 28 1895

Time of day, 10.35 A.M.; of tide, flood

Locality, Chesapeake Bay

Exact position, 2 1/2 miles ESE of Bush
Island Ledge

Depth, 18 fathoms

Nature of bottom,

Dredging instrument used, 7 ft. B. F. gear with 10
flower floats attached to the boom

Direction of drift, ; distance,

Temperature of air, 62

therm. No.,

" of surface water, 53

" at depth of fathoms, ..

" at bottom, ..

Density at surface, 10007-

temp., 53

" at depth of fathoms, ..

" at bottom, ..

Number of salinometer, 7047

Barometer reading, 29.92

State of sky, Clear, hazy over the bay

Direction of wind, S ; force, 1

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, U.S. Fish Commission

Service to which attached, U.S. Commission

Name and rank of commanding officer, Robt. P. Ladd

Lieut. A. G. M.

Name and position of observer, G. B. Cleveland
Master of the U.S.A.

NOTES RELATING TO STATION NO. 1923

The Ocean was lowered to the bottom
At 11:30, and hove in at noon
containing about 8 bushels of mud &
dead grass, Crabs, Hig & small
squilla. Fishes - Flounders. Many
shrimps.

RECORD OF DREDGING,

TEMPERATURE AND DENSITY.

Station No. 1924

Date, Apr 28 1895

Time of day, 12.30 PM ; of tide, 6 ft

Locality, Chesapeake Bay

Exact position, $3\frac{1}{2}$ miles S 6 by E off Great
Wicomico Shds

Depth, 11 fathoms

Nature of bottom, L S

Dredging instrument used,

Plates lowered to the bottom

Direction of drift, ; distance,

Temperature of air, 64

therm. No.,

" of surface water, 53

" at depth of fathoms,

" at bottom,

Density at surface, 10008.4

temp., 53

" at depth of fathoms,

" at bottom,

Number of salinometer, 7047

Barometer reading, 29.92

State of sky, Clever and hazy over the bay

Direction of wind, N ; force, 2

Rain,

Direction of surface current, ; force,

" of bottom " : force,

Name of vessel, "Flock Hawk"

Service to which attached, U. S. Fish Commission

Name and rank of commanding officer, Frank M. M

Smith, Jr.,

Name and position of observer, C. H. Cleveland

Master of the

NOTES RELATING TO STATION NO. 1924

At 2.30 the trawl was lowered
to the bottom and hove in at 12.55
catching a little dead grass and a
few shrimp - suspended operation
and headed in for Port Macquarie
Rugby Park

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No.

1925

Date,

Sept 14th 1895

Time of day, 9.25 a M; of tide,

Locality, off Pensacola

Exact position, Pensacola with bearing NW dist
Dodge down 9.15 at bottom 9.8 $\frac{1}{2}$ $\frac{1}{2}$ miles
up 10 $\frac{1}{2}$ at surface 10.9 $\frac{1}{2}$ $\frac{1}{2}$ Depth, 26 fathoms $\frac{1}{2}$ 20, 27 fathoms $\frac{1}{2}$ 29 fathoms

Nature of bottom, Gr. Sph. spks.

Dredging instrument used, 7 foot beam Trawl

Direction of drift, ; distance,

Temperature of air, 94 therm. No.,

" of surface water, 86

" at depth of fathoms,

" at bottom, 78

Density at surface, 10.27-2 temp., 86
10 am

" at depth of 10.27-2 fathoms, " 85

" at bottom, 10.26-0 " 78

10 am 10.26-0 " 77

Number of salinometer, 7052

Barometer reading, 29.84

State of sky, Clear

Direction of wind, South; force, 1

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, "Fish Hawk"

Service to which attached, U. S. Fish Commission

Name and rank of commanding officer, G. Swift

Lieut. C. S. Agassiz

Name and position of observer, G. W. Chapman

Met. Off.

NOTES RELATING TO STATION NO. 1925

Obtained about a basket of material consisting of a small octopus, Coral, Sea Scallop shells, Red Lump sponge, a few small Shrimp, young crab, 1 Pipe Fish, 1 Sea Robin, 1 Cown fish, 1 young Squid, *Halibutaceum*, 1 Merm tate, *Equilla*, 1 Mor fish, 1 large sea urchin, None, Bat fish, 1 Sand dab, 1 small Octopus (most of it *Cucumaria*)
The body of the Octopus was about 7 inches long & the tentacles about 12 inches in length.

RECORD OF DREDGING.

TEMPERATURE AND DENSITY.

Station No. 1926

Date, Sept 14 95

Time of day, 10, 25 AM of tide,

Locality, off Pensacola

Exact position, Pensacola & Harbor 10 37 N. lat.
depth down 10.25' at bottom 10.35' 24 miles
depth at 11.10" surface 11.25"

Depth, 29 fathoms

Nature of bottom, Gr. 5 & 6 ft. spk.

Dredging instrument used, 7 feet beam trawl

Direction of drift, ; distance,

Temperature of air, 91 therm. No.,

" of surface water, 85

" at depth of fathoms,

" at bottom, 77

Density at surface, 1022.4 temp., 85

" at depth of fathoms,

" at bottom, 1026.0 " 77

Number of salinometer, 70.52

Barometer reading, 29.84

State of sky, Clear

Direction of wind, South : force, 1

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel, Fish Hawk

Service to which attached, U. S. Fish Commission

Name and rank of commanding officer, G. D. Scammon
Lieut. R. N.Name and position of observer, G. H. Cleveland
Mater. Eng.

NOTES RELATING TO STATION NO. 1926

Obtained a conch yesterday & water
but no Molluscs fish,
but was torn, Caught two Octopus
about 5 feet circumference, some
Red Coral, 2 small sea urchins,
1 bucket of Sponges (about 1/2 full of dead
Scallop Shells) 1 small squid
1 small Red fish, 1 sea urchin
1 sand dollar

The body of the Octopus was
about 10 inches long and the
tentacles about 18" long

RECORD OF DREDGING,
TEMPERATURE AND DENSITY.

Station No. 1927

Date, Sept. 14th 1895

Time of day, 11,50 A.M.; of tide,

Locality, Off Pensacola

Exact position, Pensacola Bay No. 2 being 11,50 24 miles
down from 11,50 at bottom 12 miles
" 1.05 " surface 1.15

Depth, 23 fathoms

Nature of bottom, Gr. & rock spks

Dredging instrument used, 7 ft Beam Trawl

Direction of drift, ; distance.

Temperature of air, 70 therm. No.,

of surface water, 86

at depth of fathoms,

at bottom, 78

Density at surface, 1.022,2 temp., 86

at depth of fathoms,

at bottom, 1.026,0

78

Number of salinometer, 70.52

Barometer reading, 29.84

State of sky, Clear

Direction of wind, South : force, 1

Rain,

Direction of surface current, : force,

" of bottom " : force,

Name of vessel, "Fisk Hawk"

Service to which attached, U.S.A. Commission

Name and rank of commanding officer, F. Smith

Lieut. 9.570

Name and position of observer, S. H. Cleveland
Mater. 4.570

NOTES RELATING TO STATION NO. 1927

Obtained about one bushel
of material consisting of
1 Octopus about 6 inches in
length with tentacles about
10 inches long.

One bucket of Rock Corals,
1/2 peck of dead Sacciferous
Shells, a few small fish
which are not identified.
2 Sea Eels and a few
Shrimps.

RECORD OF DREDGING,
TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, : of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used.

Direction of drift, ; distance,

Temperature of air, therm. No.,

“ of surface water,

“ at depth of fathoms,

“ at bottom,

Density at surface, temp.,

“ at depth of fathoms,

“ at bottom,

Number of salinometer,

Barometer reading.

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, : force,

“ of bottom “ : force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO.

RECORD OF DREDGING,
TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance,

Temperature of air, therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading,

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO.

**RECORD OF DREDGING,
TEMPERATURE AND DENSITY.**

Station No.

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance,

Temperature of air, therm. No.,

" of surface water,

" at depth of fathoms,

" at bottom,

Density at surface, temp.,

" at depth of fathoms,

" at bottom,

Number of salinometer,

Barometer reading,

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO.

RECORD OF DREDGING,
TEMPERATURE AND DENSITY.

Station No.,

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance.

Temperature of air, therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading,

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO.

RECORD OF DREDGING,
TEMPERATURE AND DENSITY.

Station No. _____

Date, _____

Time of day, _____ ; of tide, _____

Locality, _____

Exact position, _____

Depth, _____

Nature of bottom, _____

Dredging instrument used, _____

Direction of drift, _____ ; distance, _____

Temperature of air, _____ therm. No., _____

" of surface water, _____ "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp., _____

" at depth of fathoms, "

" at bottom, "

Number of salinometer, _____

Barometer reading, _____

State of sky, _____

Direction of wind, _____ ; force, _____

Rain, _____

Direction of surface current, _____ ; force, _____

" of bottom " ; force, _____

Name of vessel, _____

Service to which attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

NOTES RELATING TO STATION NO.

RECORD OF DREDGING,
TEMPERATURE AND DENSITY.

Station No. _____

Date, _____

Time of day, _____ : of tide, _____

Locality, _____

Exact position, _____

Depth, _____

Nature of bottom, _____

Dredging instrument used, _____

Direction of drift, _____ ; distance, _____

Temperature of air, _____ therm. No., _____

" of surface water, _____

"

" at depth of fathoms, _____

"

" at bottom, _____

"

Density at surface, _____ temp., _____

" at depth of fathoms, _____

"

" at bottom, _____

"

Number of salinometer, _____

Barometer reading, _____

State of sky, _____

Direction of wind, _____ ; force, _____

Rain, _____

Direction of surface current, _____ ; force, _____

" of bottom " ; force, _____

Name of vessel, _____

Service to which attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

NOTES RELATING TO STATION NO. 1

RECORD OF DREDGING,
TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom.

Dredging instrument used,

Direction of drift, ; distance,

Temperature of air, therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading,

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO.

RECORD OF DREDGING,
TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, : of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used.

Direction of drift, ; distance,

Temperature of air, therm. No.,

" of surface water, ..

" at depth of fathoms, ..

" at bottom, ..

Density at surface, temp.,

" at depth of fathoms, ..

" at bottom, ..

Number of salinometer,

Barometer reading,

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO.

RECORD OF DREDGING,
TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance,

Temperature of air, therm. No.,

" of surface water, ..

" at depth of fathoms, ..

" at bottom, ..

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading,

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO.

RECORD OF DREDGING,
TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, : of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance,

Temperature of air, therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading,

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO.

RECORD OF DREDGING,
TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance,

Temperature of air, therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading,

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO.

RECORD OF DREDGING,
TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, : of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, : distance,

Temperature of air, therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading,

State of sky,

Direction of wind, : force,

Rain,

Direction of surface current, : force,

" of bottom " : force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO.

RECORD OF DREDGING,
TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance.

Temperature of air, therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading,

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO.

RECORD OF DREDGING,
TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance.

Temperature of air, therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading,

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO.

RECORD OF DREDGING,
TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance,

Temperature of air, therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading,

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO.

RECORD OF DREDGING,
TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance.

Temperature of air, therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer.

Barometer reading,

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel.

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO.

**RECORD OF DREDGING,
TEMPERATURE AND DENSITY.**

Station No.

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom.

Dredging instrument used.

Direction of drift, ; distance,

Temperature of air, therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer.

Barometer reading.

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO.

RECORD OF DREDGING,
TEMPERATURE AND DENSITY.

Station No. _____

Date, _____

Time of day, _____ ; of tide, _____

Locality, _____

Exact position, _____

Depth, _____

Nature of bottom, _____

Dredging instrument used, _____

Direction of drift, _____ ; distance, _____

Temperature of air, _____ therm. No., _____

" of surface water, _____

" at depth of fathoms, _____

" at bottom, _____

Density at surface, _____ temp., _____

" at depth of fathoms, _____

" at bottom, _____

Number of salinometer, _____

Barometer reading, _____

State of sky, _____

Direction of wind, _____ ; force, _____

Rain, _____

Direction of surface current, _____ ; force, _____

" of bottom " ; force, _____

Name of vessel, _____

Service to which attached, _____

Name and rank of commanding officer, _____

Name and position of observer, _____

NOTES RELATING TO STATION NO. _____

RECORD OF DREDGING,
TEMPERATURE AND DENSITY.

Station No.

Date,

Time of day, ; of tide,

Locality,

Exact position,

Depth,

Nature of bottom,

Dredging instrument used,

Direction of drift, ; distance,

Temperature of air, therm. No.,

" of surface water, "

" at depth of fathoms, "

" at bottom, "

Density at surface, temp.,

" at depth of fathoms, "

" at bottom, "

Number of salinometer,

Barometer reading,

State of sky,

Direction of wind, ; force,

Rain,

Direction of surface current, ; force,

" of bottom " ; force,

Name of vessel,

Service to which attached,

Name and rank of commanding officer,

Name and position of observer,

NOTES RELATING TO STATION NO. _____